## Allotment Assessment and Evaluation Report for New Mexico Standards and Guidelines for Public Land Health Dunn Bridge (#627) – August 30, 2010

Permittee/Lessee			Authorization Numb currently unauthorize	
Livestock Use	Preference AUMs	Allotment 00627	Active to be dete	Suspended
	Period of Use /	Allotment	Number/Kind	Season of Use
	Kind of livestock	Dunn Bridge	n/a	n/a
	Percent Public Land		e authorized at 100%	public land
Allotment Profile	Physical Description	Allotment 627 is located approximately 3 miles west of A Hondo in Taos County, New Mexico.		miles west of Arroyo
		Dunn Bridge Allotm Rio Grande Gorge al covered by Artemisia approximately 7000	oove John Dunn Brid a tridentata (sagebrus	ge. It is dominantly
		Three soil types are i		BLM parcels. Soils
		12 inches. Runoff is	found along the Rio ( re sediments. Mean a very rapid and erosi- mited, but perennial a	Grande Gorge with annual precipitation is
		Sedillo-Orthents associated consist of gravelly longer parent material form annual precipitation. Vegetation is character galleta, Indian ricegraph	pams, with rooting de ed from gravelly allu in this area ranges fro terized by western wh	opths over 60 inches.  Ivium. Average om 11 to 13 inches.
		loams, with rooting of formed from mixed a soil. Average annua	depths over 60 inchest alluvium and eolian rall precipitation in this tion is characterized	naterial comprises this
	Land Status Acreage	BLM 305	State 0	<u>Private</u> 0
	Management Objectives	The allotment is und category. 'M' category current satisfactory e	ory allotments are ma	•
	Key Forage Species	Western wheat, blue	grama, galleta, India	n ricegrass

	Grazing System	No system is use	ed at this time due to l	peing unpe	ermitted.
<b>Current Conditions</b>	Actual Use	-	rts were not submitted		
/ Management		allotment has been vacant. Historically 38 AUMs were			
		permitted for thi			
	Utilization		of staff, utilization stu	dies have	not been
	Climate	conducted.	year (Oct. 1, 2000 – Sa	ent 30 20	10) the average
	Cimate	The past water year (Oct. 1, 2009 – Sept. 30, 2010) the average temperature has been slightly below average (0 to 1 degrees Fahrenheit) and precipitation above average (0 to 3 inches of precipitation). The winter was slightly wetter (1.5 to 3 inches of precipitation) and was colder (2 to 3 degrees Fahrenheit). The spring was drier (0.75 to 1.5 inches of precipitation) and was colder (1 to 2 degrees Fahrenheit). This should provide below average plant growth for cool season plants. The sumprecipitation was below average (0 to 1.5 inches) and slightly			
			degrees Fahrenheit) w		
		normal growth f	for warm season plant	S.	_
			change resulting from	_	
		•	accelerate rates of pla em structure (species		
		•	nat our monitoring effort	• /	
			for management modi		
			esulting from global cl		
	Trend		ring transects and phot		
			establish vegetation to ment file at the Taos F		_
		summarized bel		Telu Offic	e, but are
		Summarized ber	ow.		
			Plot #1	2010	
			Ground Cover	(%)	
			Bare Ground	20	
			cryptograms	0	
			gravel	43	
			rock	3	
			litter	22	
			ARTR (Big Sagebrush)	5	
			BOGR (Blue Grama)	7	1
			ARPU (Purple Threeawn)	1	
			Species		
			Composition	(%)	
			ARTR (Big Sagebrush)	49	
			BOGR (Blue Grama)	41	
			ARPU (Purple	_	
			Threeawn)	5 3	
			ELEL (Squirreltail)	1	
			GUSA (Snakeweed)	Т Т	

		SPCR (Sand Dropseed) 1
		PIED (Pinyon Pine) 1
	Riparian	There are no riparian areas within this allotment.
	Wildlife	Seasonal home ranges in the allotment include those for deer, elk, bear, bobcat, fox, coyote, small mammals and reptiles, bats, raptors, turkey vulture, songbirds, and a variety of insects. Elk especially use this allotment during winter months.  Some dietary overlap occurs between wildlife and cattle; however, best management practices would ensure that forage production within this area can support both wildlife and livestock on a sustained basis.  This allotment has potential for future projects to enhance
		wildlife habitat through vegetation treatments and water developments.
	Threatened and Endangered Species	It is determined that there are no federally listed threatened or endangered species likely to be found in the subject allotment. There is no designated critical habitat for any species listed by the USFWS within the allotment.
		Special status species that are likely to be found on the allotment (seasonally) include bald eagle and ferruginous hawk.
Findings / Rationale for the New Mexico Standards for Public Land Health		A Rangeland Health Evaluation Matrix was completed on August 30, 2010. This evaluation matrix is from Technical Reference 1734-6 "Interpreting Indicators of Rangeland Health." The actual matrix forms are available within the allotment file. Below is a summation of the information gathered by the on site evaluation. Within the Rangeland Health Attributes are three different categories of indicators. The categories include; Soil and Site Stability, Hydrologic Function and Biotic Integrity. The percent of indicator score was created by multiplying an assigned value for departure from site descriptions/reference areas by the number of indicators at the level. Departure scores are categorized as: none to slight = 5, slight to moderate = 4, moderate = 3, moderate to extreme = 2 and extreme = 1. For example, if all indicators under Soil/Site Stability were rated none to slight (best condition), the equation would be 5(score)*10indicators=50/50*100 = 100% similarity, or what is expected based on an Ecological Site Description.  Soil and Site Stability Four indicators were deemed None to Slight, six were deemed Slight to Moderate, zero were deemed Moderate, zero were deemed Moderate, zero were deemed Moderate to Extreme, and zero were deemed Extreme to Total.  Rating: 88%

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		Hydrologic Function Four indicators were deemed None to Slight, six were deemed Slight to Moderate, zero were deemed Moderate, zero were deemed Moderate to Extreme, and zero were deemed Extreme to Total. Rating: 88%
		Biotic Integrity Five indicators were deemed None to Slight, Four were deemed Slight to Moderate, zero were deemed Moderate, zero were deemed Moderate to Extreme, and zero were deemed Extreme to Total. Rating: 91%
		Overall Rating: 89%
	Upland Standard	Upland ecological sites are in productive and sustainable condition within the capability of the site. Upland soils are stabilized and exhibit infiltration and permeability rates that are appropriate for the soil type, climate, and landform. The kind, amount and/or pattern of vegetation provides protection on a given site to minimize erosion and assist in meeting Sate and Tribal water quality standards.
		This allotment is meeting the Upland Standard based on the above evaluation and information. Soils appear stable and erosion is no more than expected for the site. Some water and soil movement was noticed, but it is not prominent. Improving plant communities will help to facilitate better infiltration.
	Biotic Communities Standard	Ecological processes such as hydrologic cycle, nutrient cycle, and energy flow support productive and diverse native biotic communities, including special status, threatened, and endangered species appropriate to site and species.
		This allotment is meeting the Biotic Communities Standard based on the above evaluation and information. Artemisia tridentata (sagebrush) is very dominant on the site. Bare ground is slightly higher and litter amount is lower than expected for the site. Historic land management practices and changes in wild fire regimes have probably impacted the current conditions. Vegetation treatments will benefit the plant and wildlife communities on the allotment.
	Riparian Standard	Riparian areas are in a productive, properly functioning and sustainable condition, within the capability of that site.
		The Riparian Standard does not apply to this allotment. No riparian area or vegetation is located within the allotment boundaries.
Conclusion		The New Mexico Standards for public land health are being met; therefore no Determination Document is warranted. No grazing is currently authorized on the allotment. Continued monitoring will help establish future trend. It is recommended

	that vegetation treatments be performed to improve wildlife
	habitat and promote herbaceous species.

## **Consultation and Coordination**

This Assessment and Evaluation Report has been sent or given to the affected permitee(s) / lessee(s), the interested publics and the following interdisciplinary team members for input and review:

Merril Dicks – Archeologist
Scott Draney – Department of Game and Fish
Greg Gustina – Fish Biologist
Pam Herrera-Olivas – Wildlife Biologist
Tami Torres – Outdoor Recreation Planner
Jacob Young – Rangeland Management Specialist
Paul Williams – Archeologist
Valerie Williams – Wildlife Biologist

This document was prepared by: Derek Trauntvein - Rangeland Management Specialist

